

665020" B5E93260

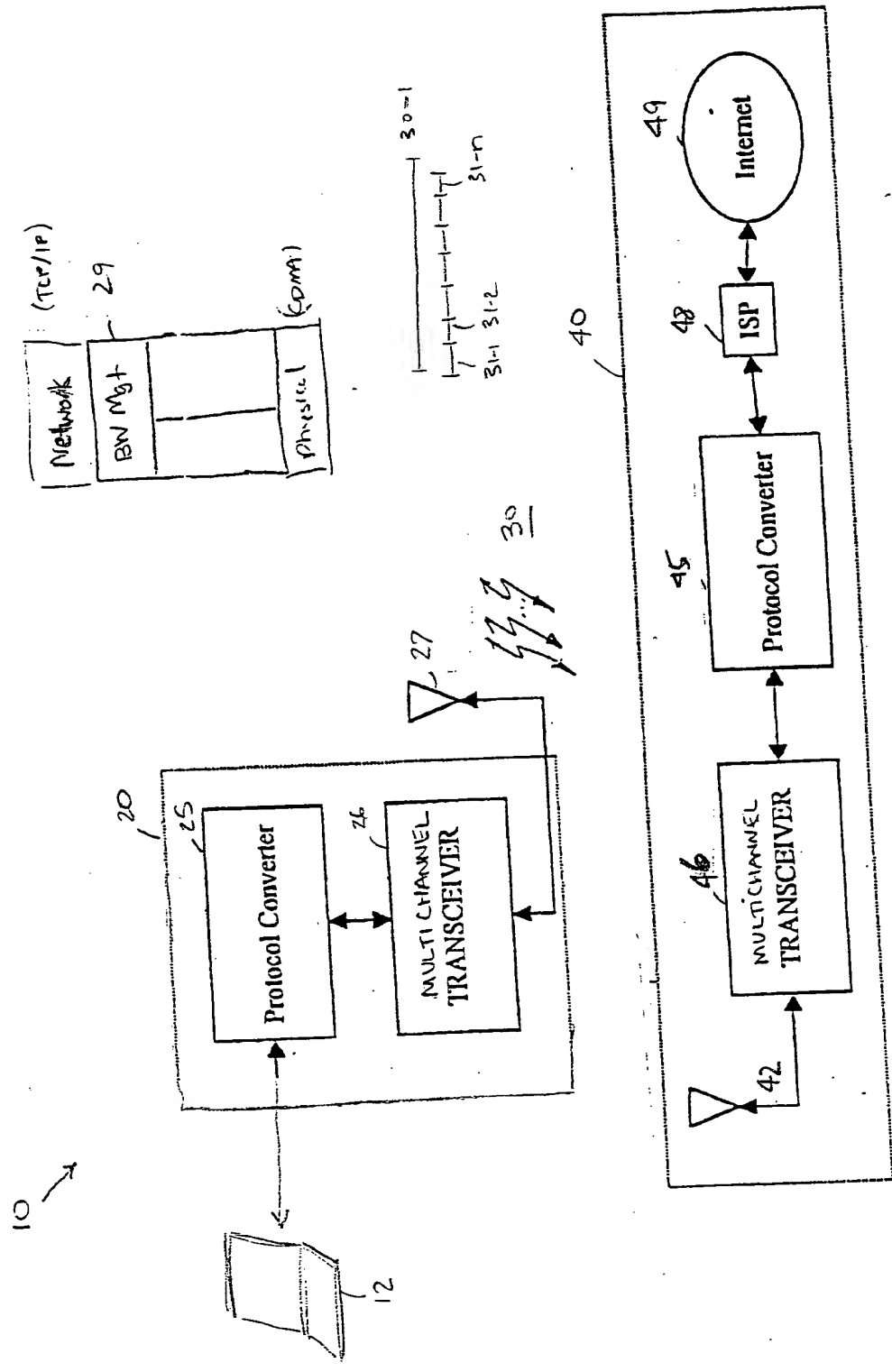


FIG. 1

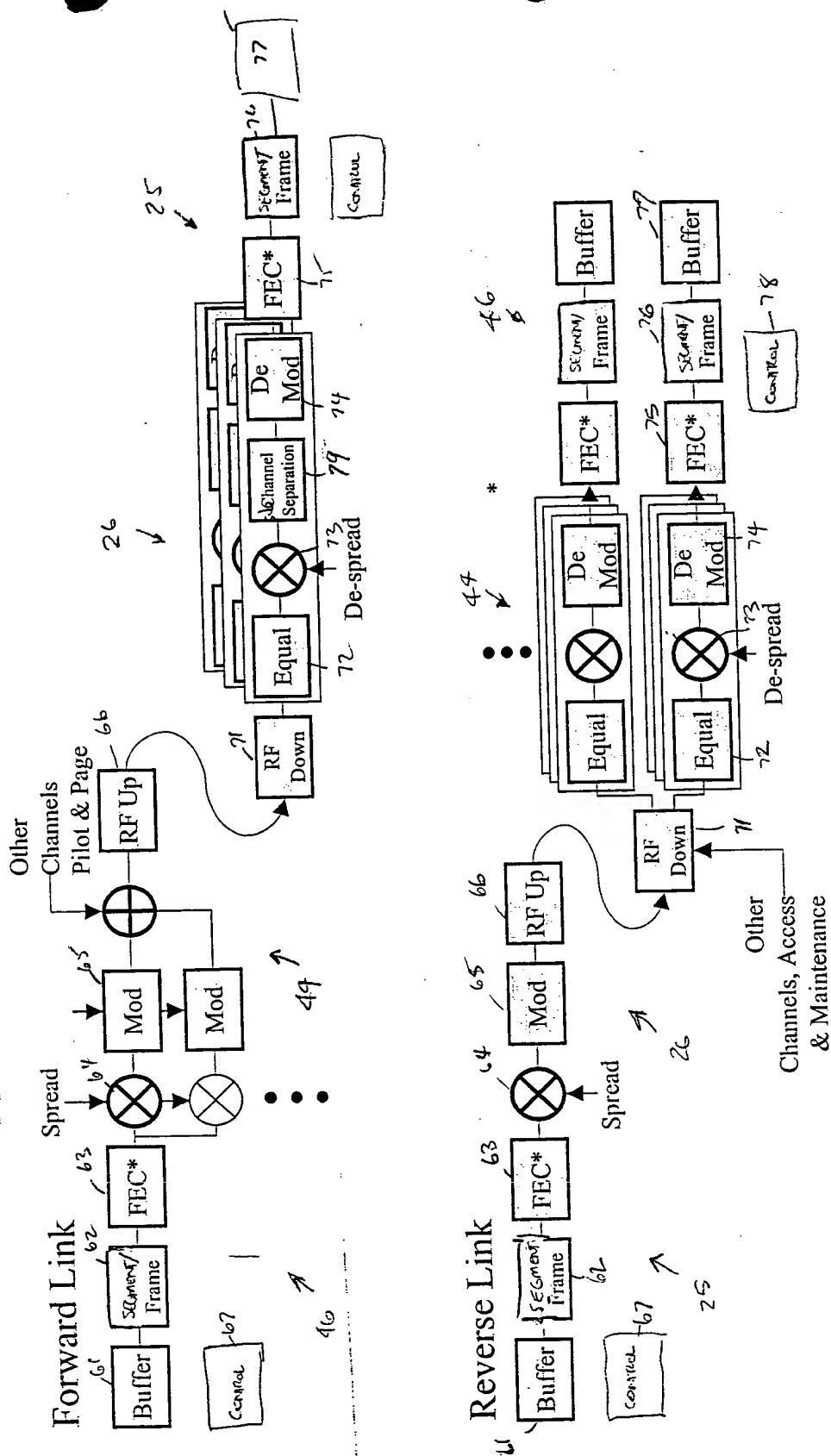
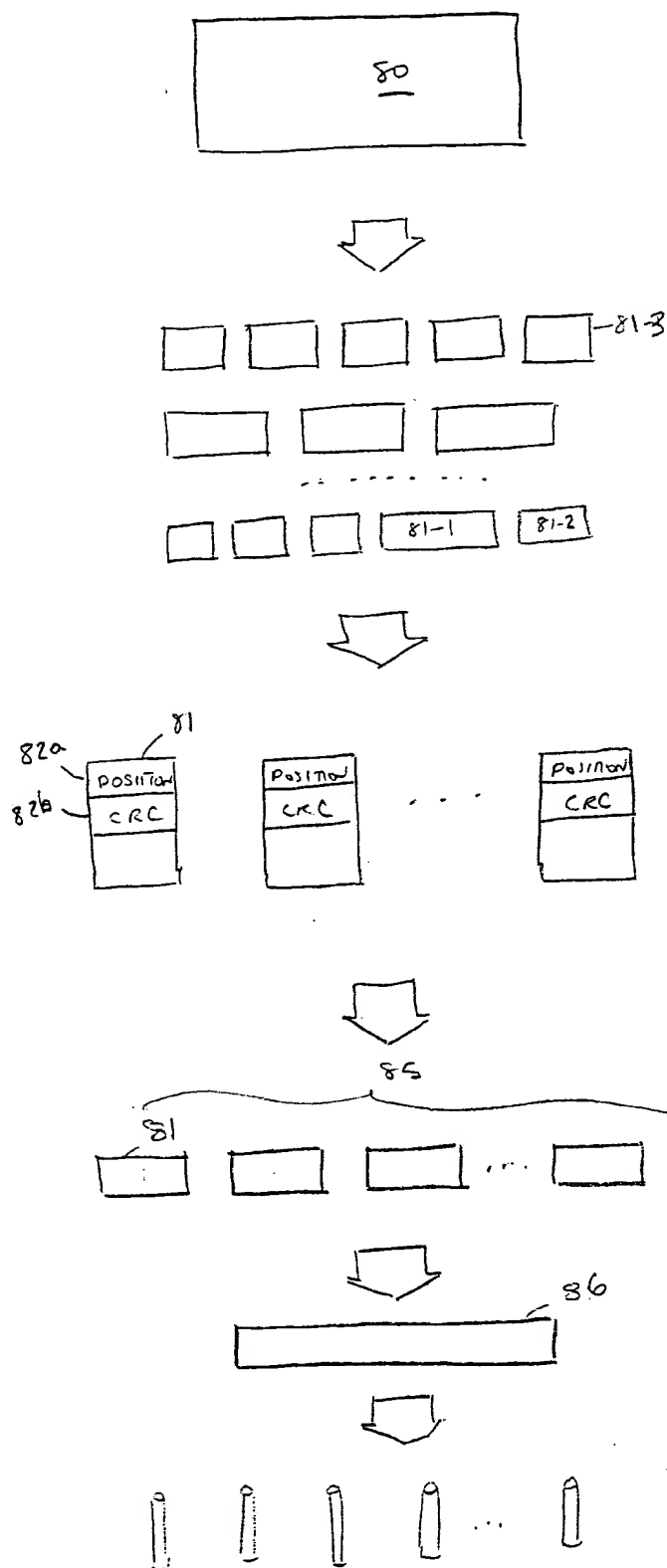


FIG. 2

00000000



Large frame
to be transmitted

Large frame
divided into
segments :

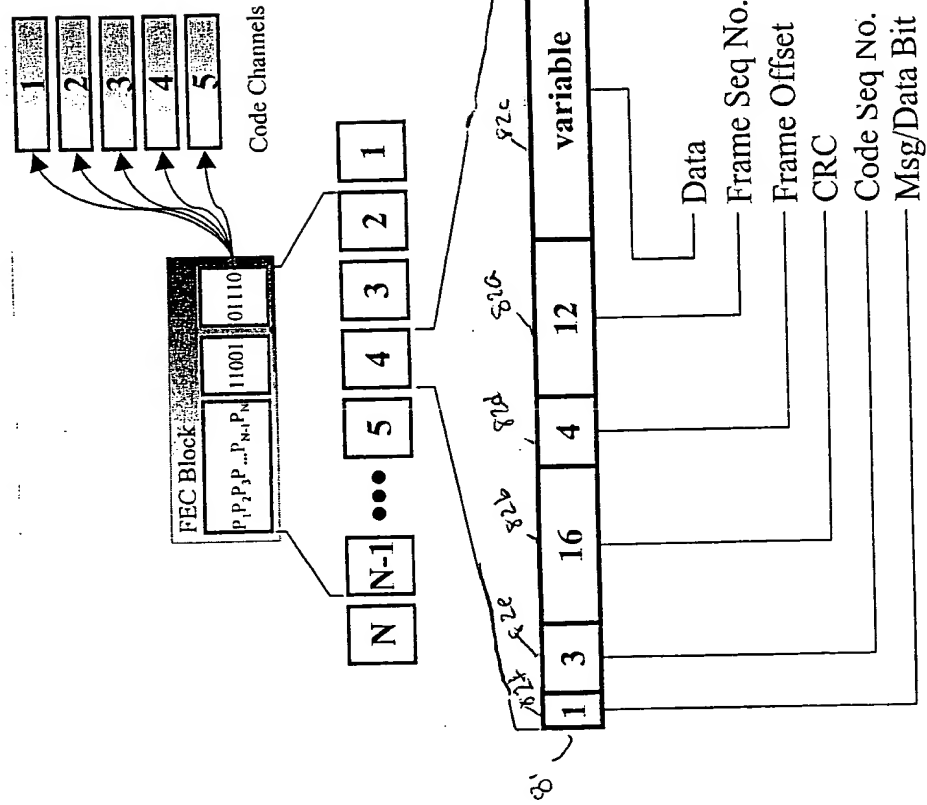
Segments assigned
a position identifier
and integrity checksum

Segments grouped
into blocks

FEC applied

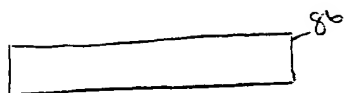
FEC block is split among allocated subchannels and sent over air interface

FIG. 3

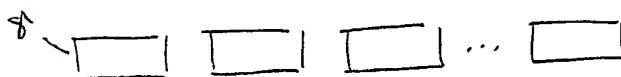


- Each frame is sliced into segments and segments can be variable in length according to the FER. The minimum size is 2 bytes and the maximum size is 512 bytes. All segments across a frame are equal in size.
- The FEC block is 4096 bits (1331 information bits for rate 1/3 TPC) and is independent of the frame size.

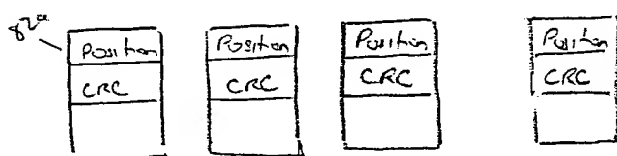
FIG. 4



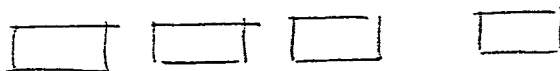
Multiplex data bits
into FEC block



1 Apply FEZ Algorithm

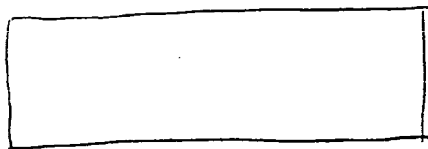


Split into segments



Use position to
reconstruct large frame

Request retransmission
of segments with bad CRC



Assemble large frame
If piece missing at
EOF, request retransmit
of missing segment

Maintain # segments received in order to determine optimum segment size

FIG. 5

SENDER

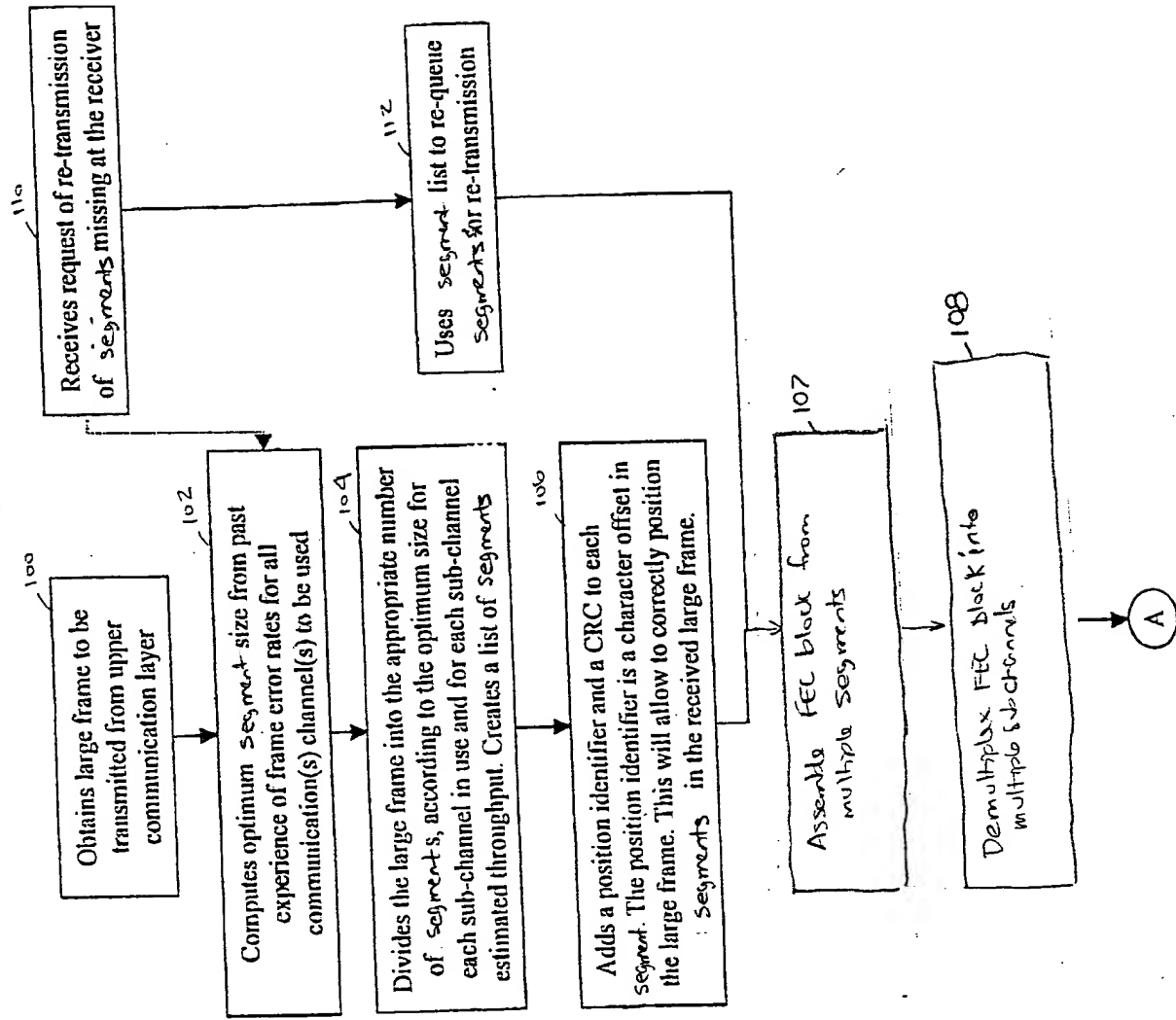
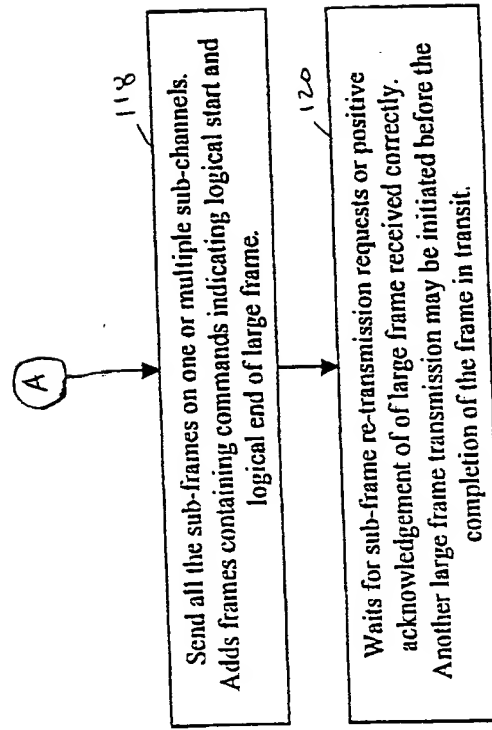


FIG. 6

Fig. 7



665000" 8888888888

RECEIVER

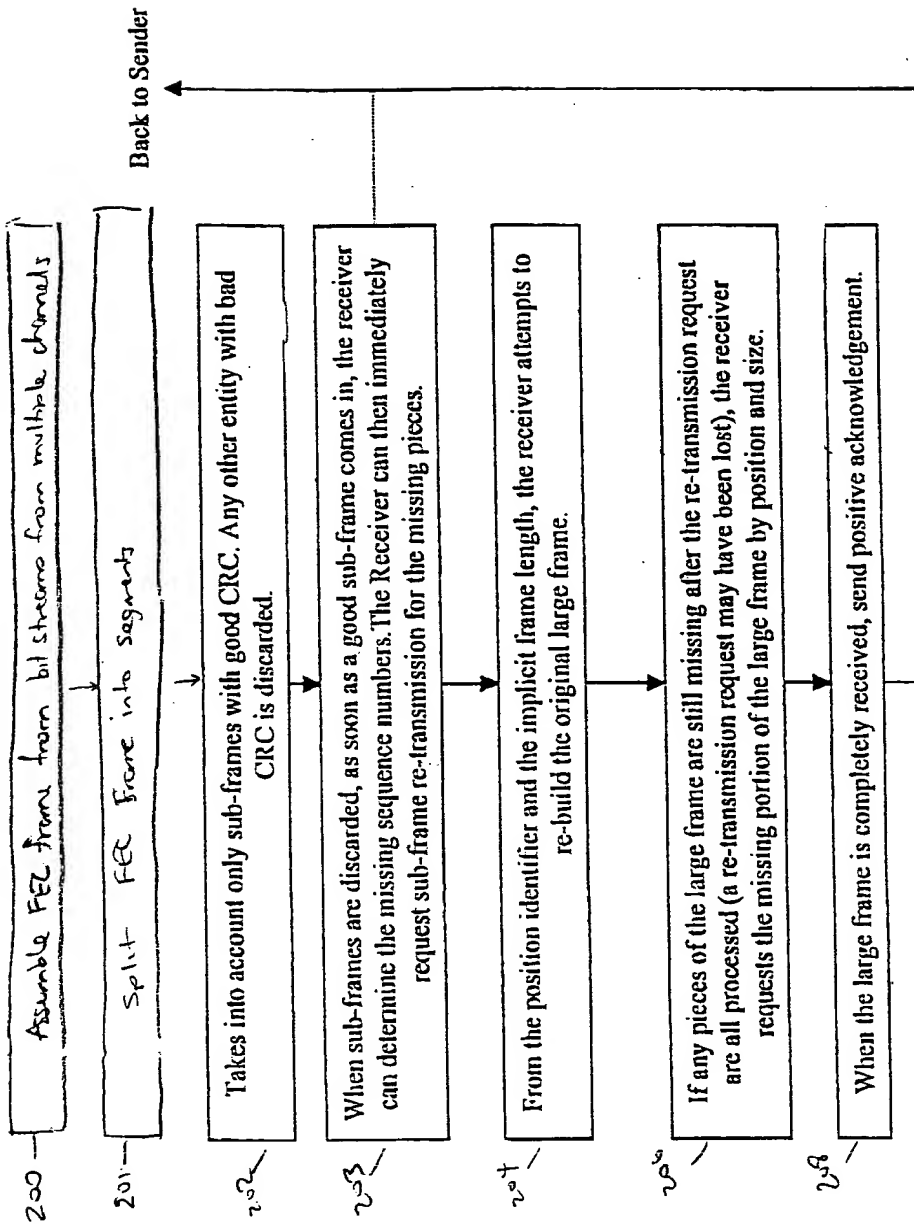


FIG. 8